

L 1743-63

EPA(b)/EWT(1)/EDS AFFTC/ASD Pg-4

ACCESSION NR: AP3004121

S/0040/63/027/004/0739/0740

56

AUTHOR: Suchkov, V. A. (Chelyabinsk)TITLE: Outflow into a vacuum when a wall is removedSOURCE: Prikladnaya matematika i mehanika, v. 27, no. 4, 1963, 739-740

TOPIC TAGS: automodel, fluid flow, double wave, vacuum

ABSTRACT: The author studies the solution of the problem in the title in the perturbed case. This is reduced to solving equations

$$(x^4 - c_1^4) c_{11} + 2c_{11} c_{12} + (x^4 - c_1^4) c_{13} = (x/c) [(c_1^3 + c_2^3)(1-x) - 2x^3] \quad (1)$$

$$u_1 = 0, \quad c = 1 + xu_1, \quad -x^{-1} < u_1 < 0, \quad u_2 = u_1 \lg a, \quad c_2 = c_1 \lg a \quad (2)$$

where

$$c_i = \frac{\partial c}{\partial u_i}, \quad c_{ij} = \frac{\partial^2 c}{\partial u_i \partial u_j} \quad (i, j = 1, 2)$$

Card 1/2

L 1743-53
ACCESSION NR: AP3004121

for the unknown function c. Here u_1 , u_2 are velocity components, c is the speed of sound, $\xi_1 = x_1/t$ and $\xi_2 = x_2/t$ are automodel variables related to the speed of sound in the resting gas $c_0 = 1$. He solves the problem in a straightforward manner using the method of characteristics. Orig. art. has: 2 formulas and 2 figures.

ASSOCIATION: none

SUBMITTED: 25Mar63

DATE ACQ: 15Aug63

ENCL: 00

SUB CODE: MM

NO REF Sov: 002

OTHER: 000

Card 2/2

VUROV, A.F.; BISWYANSKIY, L.I.; SUCHKOV, V.A.

Scattering of light in solution and other phenomena due to departures
from the ideal. Ukr. fiz. zhur. 9 no.5:526-531 My '64. (MIR 17:9)

1. Leningradskiy gosudarstvennyy universitet.

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4

SUGAKOV, V. A.

Reversible rectifier unit with transformer excitation. Item # GPT-29
No. 3-85-84 123.
(MTRA 07/00)

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4"

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4

SUCHKOV, V.A.

Two-dimensional potential flows with stationary flow lines.
Dokl. AN SSSR 164 no.2:292-293 S '65. (MIRA 18:9)

1. Submitted February 20, 1965.

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4"

ACC NR: APT/004279

AUTHOR: Suchkov, V. A.

ORG: none

SOURCE CODE: UR/2517/65/074/000/0156/0167

TITLE: Double waves in plane potential flow of polytropic gas

SOURCE: AN SSSR. Matematicheskiy institut. Trudy, v. 74, 1966. Raznostnyye metody resheniya zadach matematicheskoy fiziki (Difference methods for solving problems in mathematical physics), pt. 1, 156-167

TOPIC TAGS: wave propagation, potential flow, adiabatic flow, partial differential equation, gas dynamics

ABSTRACT: Analytic solutions of the two-dimensional potential flow equations for the propagation of plane double waves are investigated. The governing equations are given by the set

$$\frac{\partial u_i}{\partial t} + u_j \frac{\partial u_i}{\partial x_j} + \frac{\partial \varphi}{\partial x_i} = 0,$$

$$\frac{\partial \varphi}{\partial t} + u_j \frac{\partial \varphi}{\partial x_j} + \kappa(\varphi) \frac{\partial u_i}{\partial x_j} = 0,$$

where $\varphi = \frac{c^2}{r-i}$, $\kappa(\varphi) = (\gamma - 1)\varphi = c^2$ and $\gamma > 1$ is the polytropic index. This leads to the set of equations for the double waves:and
in theFor $0 < k < 1$, the above equation is shown graphically in the physical as well as

expresses his gratitude to Professor N. N. Yanenko for his interest in this work, and to his junior colleague R. A. Zhirkov for his calculations. Orig. note / ORIG REF: 005 / OTH REF: 001

APPROVED FOR RELEASE: 08/26/2000
Card 2/2 SUB CODE: 20/ SUB DRAFT

CIA-RDP86

SUCHKOV, V.B.

Modification of temporary artificial anus in injury of the rectum. Vest.khir. 76 no.7:123-125 Ag '55. (MLRA 8:10)

1. Iz kafedry gospital'noy khirurgii (zav.-prof. V.M.Bal')
Astrekhanskogo meditsinskogo instituta.

(RECTUM, wounds and injuries

surg., temporary colostomy)

(WOUNDS AND INJURIES

rectum, surg.temporary colostomy)

(COLOSTOMY,

temporary in wds. of rectum)

SUCHKOV, V.B.

Resection of the intestine due to ileocecal invagination in a
5-month-old child. Vest.khir.76 no.8:114-115 S '55 (MLRA 8:11)

1. Iz kafedry gospital'noy khirurgii (zav.--prof.V.M.Bal')
Astrakhanskogo meditsinskogo instituta, Astrakhan', naberezhnaya
1 Maya, d.111, kv.1.

(INTUSSUSCEPTION, in inf. and child.
ileocecal in 5-month-old child, surg.)

SUCHKOV, V. B. Cand Med Sci -- (diss) "A new method of operating ^{on} a temporary unnatural anus (Experimental clinical study)." Ivanovo, 1959. 19 pp (Ivanovo State Med Inst), 300 copies (KL, 48-59, 117)

SUCHKOV, V.B.

Plastic operation on the rectum following preliminary disengagement. Nov.khir.arkh. no.4:97-98 Jl-Ag '59. (MIRA 12:11)

1. Kafedra gospital'noy khirurgii (zav. - prof.V.M.Bal') Astrakhanskogo meditsinskogo instituta.
(RECTUM--SURGERY)

KITAYEV, Boris Ivanovich; YAROSHENKO, Yuriy Gavrilovich; SUCHKOV,
Valerian Danilovich; GRUZINOV, V.K., red.; LUCHKO, Yu.V., red.
izd-va; ZEF, Ye.M., tekhn.red.

[Heat exchange in shaft furnaces] Teploobmen v shakhnykh
pechakh. Sverdlovsk, Gos.nzuchno-tekhn.izd-vo lit-ry po chernoi
i tsvetnoi metallurgii, Sverdlovskoe otd-nie, 1957. 279 p.
(MIRA 11:1)

\ (Furnaces) (Heat--Transmission)

BUDRIN, D.V.; YAROSHENKO, Yu.G.; SUCHKOV, V.D.

Determining thermophysical properties in a wide range of
temperatures. Izv.vys.ucheb.zav.; prib. 5 no.1:118-127 '62.
(MIRA 15:2)

1. Ural'skiy politekhnicheskiy institut imeni S.M. Kirova.
Rekomendovana kafedroy metallurgicheskikh pechey Ural'skogo
politekhnicheskogo instituta.
(Heat-conduction)

SUCHKOV, V.D.; MARKIN, V.P., otv. red.

[Thermophysical values; reference data for the design of
metallurgical furnaces] Teplofizicheskie velichiny: Spra-
vochnye dannye dlja proektirovaniia metallurgicheskikh pe-
chei. Sverdlovsk, Ural'skii politekhn. in-t S.M.Kirova,
1963. 38 p. (MIRA 17:7)

EWT(1)/EWP(q)/EWT(m)/BDS--AFFTC/ASD--WH
L 11219-63

ACCESSION NR: AP3000024

8/0131/63/000/005/0199/0206

57

AUTHOR: Budrin, D. V.; Suchkov, V. D.; Yaroshenko, Yu. G.

56

TITLE: Rapid determination of thermal conductivity and heat diffusivity in refractory materials

SOURCE: Ogneupory, no. 5, 1963, 199-206

TOPIC TAGS: refractories, thermal conductivity, heat diffusivity, magnesite, fire clay, thermocouple

ABSTRACT: The authors propose a method of using limiting conditions of a third kind, more general than previously employed, in solving a differential Fourier equation as a means of determining thermal properties. The technique for determining measured values requires no observation of special conditions in setting up the tests, except the maintenance of uniformly symmetrical heating (and cooling) of samples in an environment of constant temperature. Cylinders of magnesite, fire clay, and foamy fire clay were used in the experiments, and measurements were made by means of Chromel-Alumel thermocouples with thermoelectrodes 0.2 mm in diameter, connected to an EPP-09 electronic potentiometer. Errors in measured temperatures did not exceed 2%. The method is simple and needs no special heating device. It can be used in any plant laboratory and permits determination of thermal properties

Card 1/2

L 11219-63

ACCESSION NR: AP3000024

through a wide range of temperatures. Orig. art. has: 6 figures, 3 tables, and 21 formulas.

ASSOCIATION: Ural'skiy politekhnicheskiy institut im. S. M. Kirova (Ural Polytechnic Institute)

SUBMITTED: 00

DATE ACQ: 12Jun63

ENCL: 00

SUB CODES: 00

NO REF Sov: 013

OTHER: 001

Card

mcs/US
2/2

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4

SUCHKOV, V. G.

"Properties of Synthetic Tanning Materials, Obtained From Lignosulfonic Acid and Phenols, and Methods of Using Them for Tanning." Sub 12 Jun 51, Moscow Technological Inst of Light Industry imeni L. M. Kaganovich

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4"

V 14650* Synthetic Tanning Agent PS. Statisticheskii otkribitel' PS. (Russian.) V. G. Svirkov. *Legkaya promst. nafta*, v. 15, no. 8, Aug. 1959, p. 102-103.

Obtained by the condensation of technical polyphenoxy with formaldehyde, followed by treatment with a mixture of formaldehyde and sulfite. Tabl. x.

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4

✓ 88* Effect of Chromium Oxide on Properties of Sole Leather.
Vliyanie okisli khrom na svil'ya podoshvennoi kozhi. (Rus-
sko.) A. I. Metelkin and V. G. Sudkov. *Legkaya promyshlen-
nost'*, v. 15, no. 9, Sept. 1955, p. 26-29. CH
Chromium-tanning; elasticity and toughness under load; strength
and other properties of treated and untreated leather. Tables.
7 ref.

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4"

SUCHKOV, V.G.

USSR/Chemical Technology - Chemical Products and Their Application. Leather. Fur.
Gelatin. Tanning Agents. Technical Proteins, I-29

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 63784

Author: Suchkov, V. G.

Institution: None

Title: Tanning with Syntan PL

Original
Periodical: Nauch.-issled. tr. Tsentr. n.-i. in-ta kozh.-obuv. prom-sti, 1955,
No 24, 58-81

Abstract: Lignophenol syntan PL comprises in its composition a considerable amount of tanning substances of sulfite-cellulose extract, and can therefore be utilized for tanning not only of chrome treated intermediate products but also of nonchromated raw hides. It can be used in tanning as the sole tanning agent or in combination with vegetable tanning agents. Tanning with syntan PL of chrome-pretreated hides does not yield satisfactory results. The leather turns out to be of light weight, with a low tanning value and increased moisture capacity.

Card 1/2

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4

METELKIN, A.I., kandidat tekhnicheskikh nauk; SUCHKOV, V.G., kandidat
tekhnicheskikh nauk; ZURABYAN, K.M., inzhener.

Increasing the wear resistance of sole leather. Leg.prom. 16 no.9:
20-23 S '56. (MLRA 9:11)
(Leather industry)

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4"

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4

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Distr: LE2c(j)

Master Number: 1 M 7400 10 1 1988 V 0

2 May

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4"

SUCHKOV, V.G., kandidat tekhnicheskikh nauk.

Influence of tanning materials on the wear resistance of sole
leather. Leg.prom. 17 no.3:34-36 Mr '57. (MLRA 10:4)
(Tanning materials) (Shoe industry)

MOTINA, T.I.; SUCHKOV, V.G.

Making leather hydrophobic by means of silicon organic compounds.
Leg. prom. 17 no.12:18-22 D '57. (MIRA 11:1)
(Leather research) (Waterproofing)

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4

SILICATE CHEMICALS

MOTINA, T.I.; SUCHKOV, V.G.

Producing chromium stearates and using them in the leather industry.
Leg. prom. 18 no.2:26-28 F '58. (MIRA 11:2)
(Chromium organic compounds) (Waterproofing)

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4"

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4

DIKOVSKIY, I. I.; MOTINA, T. I.; SUCHKOV, V. G.

Using "chromolan" for imparting water-repellent properties to
leather. Kozh.-obuv.prom. 2 no.9:22-25 S '60. (MIRA 13:10)
(Leather)

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4"

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4

DERBAREMDIKER, M.L.; ZURABYAN, K.M.; LAYEVSKAYA, G.I.; LITVINOV, M.R.;
METELKIN, A.I.; SLUTSKIY, S.B.; SUCHKOV, V.G.

Production of Russian leather and of footwear manufactured with the
hot vulcanization method. Kozh.-obuv.prom.3 no.3:17-20 Mr '61.
(MIRA 14:6)

(Shoe manufacture)
(Leather)

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4"

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4

METELKIN, A.I., kand.tekhn.nauk; SUCHKOV, V.G., kand.tekhn.nauk;
ZURABYAN, K.M., kand.tekhn.nauk; MARTINKOVSKAYA, Yu.S., tekhnik

New developments relating to the characteristics of fat-liquoring
materials. Kozh.-obuv.prom. 3 no.8:27-30 Ag '61. (MIRA 14:10)
(Leather) (Oils and fats)

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4"

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4

MIKHAYLOV, A.N., doktor tekhn.nauk, prof.; SUCHKOV, V.G., kand.tekhn.nauk

Use of high temperature methods for speeding the tanning of stiff
leather. Kozh.-obuv.prom. 3 no.12:14-17 D '61. (MIRA 15:1)
(Tanning)

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4"

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4

BABAKINA, V.G.; METELKIN, A.I.; SUCHKOV, V.G.; KURAYTIS, S.A.; GOLUBEVA, S.K.

Method of leather processing; Soviet Certificate of Investments
No.143957. Kozh.-obuv.prom. 4 no.8:42 Ag '62. (MIRA 15:8)
(Leather industry—Technological innovations)

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4"

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4

METELKIN, A.I., kand.tekhn.nauk; SUCHKOV, V.G., kand.tekhn.nauk

Methods of eliminating the "resting" of semiprocessed
products after chrome treatment and tanning. Kozh.-obuv.prom.
4 no.9:35-36 S '62. (MIRA 15:9)
(Leather--Testing)

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4"

KEDROV, L.V.; KACHKO, I.L.; KOZLOVA, Z.V.; RUBASHKINA, T.S.;
SEMONOV, I.G.; LUPEKIN, L.A.; BORISOVA, N.V.; FETISOVA,
N.A.; VAYSBERG, I.Ye.; SUCHKOV, V.G.; KRENNIKOV, N.S.;
FILATOV, M.F., red.; ZAIYEVSKAYA, L.G., red.

[Flexible footwear] Gibkaia obuv'. Moskva, 1962. 38 p.
(MIRA 17:8)

1. TSentral'nyy institut nauchno-tehnicheskoy informatsii
legkoy promyshlennosti.

SUCHKOV, V.G. (Novozybkov)

Interesting case of color adaptation. Priroda 51
no.11:117 N '62. (MIRA 15:11)
(Color sense)

AREBUZOV, S.V.; VAYSBERG, I. Ye.; SUCHKOV, V.G.; Prinimali uchastiye:
LYUKSENEBURG, M.S., nauchnyy sotrudnik; SHNAYDER, I.S., nauchnyy
sotrudnik; PESKIN, Ya.I., nauchnyy sotrudnik.

New standard methodology for the manufacture of leather for
sole parts from hogskins. Nauch.-issl. trudy TSNIKP no.33:
3-7 '63 (MIRA 18:1)

1. Tsentral'nyy nauchno-issledovatel'skiy institut kozhevenno-
obuvnoy promyshlennosti (for Lyuksenburg, Shnayder, Peskin).

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4

SUCHKOV, V.G., kand. tekhn. nauk

New method for leather tanning. Kozh. obuv. prom. 5 no.7:
16-17 Jl '63. (MIRA 16:8)
(Tanning)

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4"

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4

VOLKOV, Vasilii Alekseyovich; MURINOV, Ivan Dakharovich; KATIN,
A.F., retsenzent; KUFTSOVA, L.D., retsenzent; SUCHKOV,
V.G., retsenzent; RAZUMOVSKAYA, Ye.V., red.
[Technology of leather] Tekhnologija kozhi. Moskva, Leg-
kaia industrija, 1964. 429 p. (MIRA 18:2)

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4"

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4

ZURABYAN, K.M., kand.tekhn.nauk; METETSKENE, N.I., inzh.; SAVEL'YEV, A.I.,
kand.tekhn.nauk; SUCHKOV, V.G., kand.tekhn.nauk

Testing of the mechanical properties of leather under dynamic con-
ditions. Kozh.-obuv.prom. 6 no.10:15-20 0 '64.
(MIRA 18:1)

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4"

SUCHKOV, V.G.

Inorganic products indispensable in the manufacture of leather.
Kozh.-obuv. prom. 6 no.12:22-24 D '64 (MIRA 18:2)

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4

YERSHOV, Ye.M.; SUCHKOV, V.I.; SHUMOV, V.P.; FEDOROV, S.F.

Apparatus for amplitude and phase measurements in the inductive method.
Geofiz.razved. no.4:48-64 '61. (MIRA 14:7)
(Electromagnetic prospecting)

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4"

L 17160-65 EWT(1) .SSD(a)-5/SSD/AFWL/AFETR/ESD(c)/ESD(gc)/ESD(t) GN/
MLK
ACCESSION NR: AT4047269 S/0000/64/000/000/0175/0182

AUTHOR: Yershov, Ye. M.; Shumov, V.P.; Sukhkov, V.I.

TITLE: Application of the induction method for solution of problems in geological mapping

SOURCE: Moshvuzovskaya nauchnaya konferentsiya po induktivnym metodam rudnoy geofiziki. Moscow, 1951. Trudy*. Moscow, Izd-vo Nedra, 1964, 175-182

TOPIC TAGS: geological mapping, geological prospecting, induced electromagnetic field, terrestrial electromagnetic field, magnetic dipole

ABSTRACT: The possibility of application of the induction method with amplitude-phase measurements for the purposes of geological mapping is based on solution of the problem of the electromagnetic field of the magnetic dipole at the earth - air interface. The magnetic moment of the magnetic dipole is considered to be purely fictitious. The values of the electromagnetic field are computed in relation to the parameter

$$p_1 = |kr| = \frac{2\pi}{c} \sqrt{2\mu f}$$

Card 1/3

L 17160-65
ACCESSION NR: AF4047269

$$p_i = 2.81 \sqrt{\frac{I}{\rho}} r,$$

The electromagnetic field of an inclined magnetic dipole is a linear combination of the fields of the horizontal and vertical dipoles. It therefore is sufficient to solve the problem for each of them separately. Solutions are available for the problems of the fields of horizontal and vertical magnetic dipoles over a horizontally layered structure for a distant zone, i.e. $|kr| > 1$, and for the induced zone, i.e. $|kr| < 1$. No solutions have been available for the transitional zone where the parameter ranges from 1 to 9. In geophysical investigations by the induction method in which ultrasonic frequencies are used (120-80 kc/s), it is most common to deal with parameters of 1.5-7. The authors therefore modeled the fields of horizontal and vertical dipoles over a two-layer structure with horizontal discontinuities. The model experiments are described. In field investigations by the induction method the apparatus used makes it possible to measure both the phase and amplitude of the different magnetic field components. The apparatus consists of a generator and a receiving apparatus. The low-frequency generator has a loop antenna at the output. The resistivities of rocks are determined easily from the phase differences of the components of the inclined dipole. The receiver is a superheterodyne receiver with one heterodyne for two channels, both of which are completely identical. There are phase inverters in each channel and

Card 2/3

L 17160-65
ACCESSION NR: AT4047269

installed in the second stage of a band-pass amplifier. The receiver is tuned to three fixed frequencies - 10, 40 and 80 kc/s. Phase is measured at the intermediate frequency of 1.5 kc/s, which makes it possible to simplify the phase inverter circuit. The receiver has a sensitivity of 10 microvolts over the scale of the indicator-type instrument. The antennas were loops at the inputs of both channels. This apparatus was used in developing the method of geological mapping in Karelia and the Transbaykal region (Yershov, Ya. M., Sutkov, V. I., and Shumov, V. P., Geofiz. razvedka, 1961, No. 4). Certain results of field investigations are reported in the paper reviewed. Orig. art. has: 6 formulas and 6 figures.

ASSOCIATION: Kompleksnaya tematicheskaya geofizicheskaya ekspeditsiya tresta Geofizneftegazrazvedka (Complex Scientific Geophysical Expedition of the Geological Trust for Petroleum and Coal Prospecting)

SUBMITTED: 27Feb64

ENCL: 00

SUB CODE: ES, EM

NO REF SOV: 004

OTHER: 000

Card 3/3

KLYACHKO, B.I., kand.tekhn.nauk; SUCHKOV, V.I., inzh.

Corrosion of low temperature heating surfaces when sulfurous
fuels are burned. Elek.sta. 31 no.2:7-10 F '60.
(MIRA 13:5)

(Boilers--Corrosion) (Fuel--Analysis)

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4

YERSHOV, Ye.M.; SUCHKOV, V.I.; SHUMOV, V.P.

Experimental studies of the electromagnetic fields of magnetic
dipoles over mediums with horizontal and vertical interfaces.
Geofiz.razv. no.13:102-122 '63. (MIRA 17:4)

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4"

KROL', B.I., inzh.; SUCHKOV, V.L., inzh.

Compound starting device for the IaAZ-204 and IaAZ-206 engines.
Stroi. truboprov. 7 no.12:25-26 D '62. (MIRA 16:1)

1. Filial spetsial'nogo konstruktorskogo byuro "Gazstroymashina",
Leningrad.
(Diesel engines—Cold weather operation)

L 23027-65 EWT(1)/EPK(s)-2/EWT(m)/EPP(n)-2/EPR/l-2/EWP(t)/EPA(bb)-2/EWP(b)
P-24/T+1/P-124 11/1964 41/SW/J7

ACCESSION NR: AF4049568

S/0064/64/000/011/0056/0059

AUTHORS: Berte, L. A.; Kisel'gof, Yu. S.; Suchkov, V. N.

TITLE: Experimental induction pump feeder for lead alloys

SOURCE: "Voprosy spetsial'noye proizvodstva", no. 11, 1964, 56-59

TOPIC: Induction pump, lead alloy, alkali metal - pump pressure regulator

The authors propose to increase the utilization of their alloys by creating an induction pump for feeding them into the smelting furnace. The pump consists of a cylindrical iron core with two windings. The outer winding is connected to an alternating current source, while the inner winding is connected to an electromagnetic pump. The pump is connected to a vertical tube that has a coil wound around it. This coil is connected to an alternating current source. Since the power required to move the liquid is proportional to the square of the current, it is possible to lower the power requirements by reducing the current. See Fig. 1 on page 59.

Card 1/4

L 23027-65

ACCESSION NR: AP4049568

Enclosures) was established for the pumping of the liquid alloy of lead-potassium which was maintained at a temperature of 200-220°. The operating conditions were as follows: 84 hours of continuous operation were maintained; winding temperatures remained at 400° centigrade; cooling water flow was 400-450 liters/hour; inlet and outlet temperatures 14-16°C; cooling air flow was 1000 m³/hour; three-phase 220-V power consumption was 1.5-2.5 kw (not including cooling air). The reliability of the system and an increase in reliability, availability, maintainability, as well suited for transporting and measuring lead-alloy metal alloys. Orig. art. has: 4 figures.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 03

SUB CODE: IE, MA

MR REF Sov: 001

OTHER: 000

Card 2/5

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4

SUCHKOV, V.N.

Heat relations in the process of the production of chlorine and
caustic soda by means of diaphragm electrolysis. Khim. prom. 40
no. 8: 597-605 Ag '64. (MIR 18:4)

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4"

L 42141-66

(EWT(m)/T/EXP(t)/EII

1976)

2000 JOURNAL OF SCIENCE

ACC NR: AT6022484

(N)

SOURCE CODE: UR/0000/65/000/000/0338/0341

AUTHOR: Zaretskiy, S. A.; Suchkov, V. N.; Busse-Machukas, V. B.; Kisel'gof, Yu. S.;
Yakimenko, L. M.; Alabyshev, A. F.

none

ZEE
B+1TITLE: On the preparation of chlorine, caustic soda, and alkali metals by electrolysis of fused media with a liquid lead cathode

SOURCE: Vsesoyuznaya soveshchaniye po fizicheskoy khimii rasplavlennykh soley. 2d, Kiev, 1963. Fizicheskaya khimiya rasplavlennykh soley (Physical chemistry of fused salts); trudy soveshchaniya. Moscow, Izd-vo Metallurgiya, 1965, 338-341

TOPIC TAGS: electrolysis, alkali metal, lead, liquid metal, chlorine, sodium hydroxide, CATHODE

ABSTRACT: In recent years, a new method of producing alkali metals has been in use in the Soviet Union: the metals are distilled out of a lead-alkali alloy prepared by electrolysis on a liquid lead cathode. However, the process is characterized by a recurring decrease of current efficiencies, particularly at high cathodic current densities. The article reviews studies made for the purpose of improving this method. It is shown that the electrolysis of alkali metal chlorides in molten salts with a circulating liquid lead cathode and distillation of the metal has many advantages over the electrolysis of aqueous solutions, namely: (a) pure sodium metal can be obtained at high current efficiencies, and pure caustic soda is thus produced without the necessity of using expensive mercury; (b) it is no longer necessary to build evaporation units and

Card 1/2

L 42141-22

ACC NR: AT6022484

units for melting caustic soda; (c) the process is carried out at current densities that are 30-35 times higher than in diaphragm electrolysis, and 6-7 times higher than in mercury electrolysis. Orig. art. has: 5 figures.

SUB CODE: 07/ SUBM DATE: 23Aug65/ ORIG REF: 007

Card 2/210168

SUCHKOV, V. V. Cand Med Sci -- (diss) "On the Mechanism of
the 'Distortion' of Leukocytic Reactions." Mos, 1957. 16 pp 20 cm.
(First Mos Order of Lenin Medical Inst im I. M. Sechenov),
200 copies (KL, 18-57, 98)

- 62 -

USSR/Human and Animal Physiology. Nervous System.
Higher Nervous System. Behavior.

T

Abs Jour: Ref Zhur-Biol., No 20, 1958, 93655.

Author : Suchkov, V.V.

Inst :

Title : The Role of Internal Inhibition in Distortion of
Leukocyte Reactions.

Orig Pub: Patol. fiziologiya i eksperim. terapiya, 1957, 1,
No 1, 55-61.

Abstract: In 3 dogs the effect of non-conditioned stimulation
(a burn of 1 cm² of skin of the thigh) was combined
with conditioned reflex prior to it (for 12 sec).
The maximal non-conditioned reflex leukocytosis arose
60 minutes after the burn and was accompanied by neu-
trophilia with a moderate nuclear shift in the neutro-

Card : 1/2

Abs Jour: Ref Zhur-Biol., No 20, 1958, 93655.

phils and by a relative lymphopenia. The magnitude
and quality of the conditioned reflex reaction did
not differ from the conditioned. After firm estab-
lishment of extinction inhibition a study was made
of the effect of the burn in relation to the inhibi-
tion stimulus. Retarded and reduced leukocytic re-
actions were observed and absence or distortion in
changes of the leukocyte formula. The effect of ex-
tinction inhibition passed away and inverted the
native non-conditioned reaction. -- K.S.Rather.

Card : 2/2

SUCHKOV, V.V. (Moskva)

The role of internal inhibition in the perversion of leukocyte reactions [with summary in English]. Pat.fiziol. i eksp.terap. l no.1:55-61 Ja-F '58. (MIRA 12:1)

1. Iz kafedry patologicheskoy fiziologii (zav. - prof. S.M. Pavlenko) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.

(LEUKOCYTES, physiol.
variations of leukocyte response to burn inflicted
with conditioned stimulus in dogs)

(REFLEX, CONDITIONED
same)

(BURNS, exper.
same)

SUCHKOV, V.V. (Moskva)

Role of external inhibition in distortion of the leukocyte reaction.
Pat.fiziol. i eksp. terap. 2 no.4:49-50 Jl-Ag '58 (MIRA 11:12)

1. Iz kafedry patofiziologii (zav. - prof. S.M. Pavlenko) Moskovskogo
ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.

(LEUKOCYTE COUNT

eff. of external inhib. in dogs (Rus))

(REFLEX, CONDITIONED

eff. of external inhib. on leukocyte count in dogs
(Rus))

SUCHKOV, V.V.; ZHUKOV, B.N.

Device for the continuous registration of the volumetric circulation rate and of the degree of oxyhemoglobin in acute experiments. Biul. eksp. biol. i med. 50 no. 11:130-133 N '60. (MIRA 13:12)

1. Iz kafedry patofiziologii i laboratorii po izucheniyu reaktivnosti organizma (zav. - prof. S.M. Pavlenko) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova.
(BLOOD CIRCULATION) (HEMOGLOBIN)

SUCHKOV, V.V.

Interaction between the leukocyte and motor reactions and respiration
in the elaboration, extinction, and sudden inhibition of the defense
reflex. Fiziol. zhur. 47 no.2:196-204 F '61. (MIRA 14:5)

1. From the Laboratory for the Organism Reactivity Studies,
Sechenov 1st Medical Institute, Moscow.
(CONDITIONED RESPONSE) (LEUKOCYTES)
(RESPIRATION)

SUCHKOV, V.V.; FILIMONOV, V.G.

Multichannel photoelectronic rheograph. Fiziol. zhur. 47 no.11:
1434-1439 N '61. (MIRA 14:11)

1. From the Laboratory for Physiology of Abnormal Bodily Reactivity,
I.M.Setchenov Medical Institute, Moscow.
(BLOOD--CIRCULATION) (LABORATORIES—APPARATUS AND SUPPLIES)

LUSHNIKOV, Ye.F.; SUCHKOV, V.V.

Some morphological problems in the early stages of experimental myocardial infarction in atherosclerosis. Biul. eksp. biol. i med. 53 no.1:117-121 Ja '62. (MIRA 15:3)

1. Iz laboratorii obshchey patologicheskoy anatomi (zav. - chlen-korrespondent AMN SSSR prof. A.T. Strukov) Instituta normal'noy i patologicheskoy fiziologii (dir. - deystvitel'nyy chlen AMN SSSR V.V. Parin) AMN SSSR i labcratori po izucheniyu reaktivnosti organizma (zav. - prof. S.M. Favlenko) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova (dir. - chlen-korrespondent AMN SSSR prof. V.V. Kovanov). Predstavlena deystvitel'nym chlenom AMN SSSR V.V. Parinym.
(HEART—INFARCTION)
(ARTERIOSCLEROSIS)

SUCHKOV, V.V. (Moskva)

Nonspecific role of internal inhibition in the change of
leucocyte reactions to different stimuli. Pat. fiziol. i
eksp. terap. 7 no.2:54-57 Mr--Ap'63. (MIRA 16:10)

1. Iz laboratorii po izucheniyu reaktivnosti organizma pri ka-
fedre patologicheskoy fiziologii I Moskovskogo ordena Lenina
meditsinskogo instituta imeni I.M.Sechenova (nauchnyy ruko-
voditel' - prof. S.M.Pavlenko)
(LEUCOCYTES) (BURNS AND SCALDS)
(INHIBITION)

SUCHKOV, V.V.

Appliance for the determination of the circulation rate. Fiziol.
zhur. 50 no.5:631-636 My '64. (MIRA 18:2)

I. Laboratoriya po peresadke organov i tkanej AMN SSSR, Moskva.

IUJSHNIKOV, Ye.F.; SUCHKOV, V.V.; SAVONICHEVA, G.A. (Moskva)

Morphological and metabolic changes in the heart of hyper-sensitized rabbits. Arkh. pat. 26 no.3:16-21 '64.

(MIRA 18:12)

1. Kafedra patologicheskoy anatomii (zav. - chlen-korrespondent AMN SSSR prof. A.I.Strukov) i patologicheskoy fiziologii (zav. - prof. S.M.Pavlenko) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Schenova i laboratoriya po peresadke organov i tkaney (zav. - chlen korrespondent AMN SSSR prof. V.V. Kovarov) AMN SSSR.

SUCHKOV, V.V.

Some characteristics of the functional study of the peripheral blood circulation. Trudy 1-го ММИ 42:49-58 '65.

Theoretical principles of the methods of application and types of electrodes for experimental rheovasographic studies. Ibid.: 59-63
(MIPА 19:2)

1. Laboratoriya po peresadke organov i tkaney AMN SSSR.

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4

SUCHKOV, V.V.; MISSIONZHENIK, E.Yu.

Characteristics of the functional state of blood circulation
in a replanted extremity. Trudy 1-go MMU 42:64-74 '65.
(MIRA 19:2)

1. Laboratoriya po peresadke organov i tkaney AMN SSSR.

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4"

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4

SUCHKOV, V.V.; LAPIN, S.K.; SHIVAYEV, V.V.; KOSHELEVA, L.V.; ZHAMNOV, Yu.Ya.

Expediency of using metal conductor prostheses for nerve trunks.
Trudy 1-go MM 42:119-128 '65. (MTKA 19:2)

1. Laboratoriya po peresadke organov i tkanej AMN SSSR i kafedra
patologicheskoy anatomii 1-go Moskovskogo ordena Lenina meditsinskogo
instituta imeni Sechenova.

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4"

flow, the flowmeter is made in the form of a U-shaped tube and is connected in series with the main line of flow (see Fig. 1 on the Enclosure). Photosensitive detectors are placed in the arms of the U-shaped tube. These control electromagnetic valves built into the arms of the U-shaped tube for measuring the direction of flow, and thus the direction of flow.

NC REF 30V: 000
Corr 1/2

OTHER: 000

300 ml/min

44162

24/266

S/181/62/004/010/062/063
B102/B104

AUTHORS: Veselovskiy, P. F., and Suchkov, Yu. D.

TITLE: General case of resonator method of determining the dielectric constant

PERIODICAL: Fizika tverdogo tela, v. 4, no. 10, 1962, 2989-2992

TEXT: The theoretical bases are stated for a method of determining ϵ in a cylindrical resonator that contains n sections filled with substances of different ϵ (Fig. 1). For simplicity, energy dispersion is ignored and $\mu=1$ over the whole volume. The mathematical solution of the problem is reduced to a considering the harmonic oscillations of the type H_{pqr} of the generalized resonator when the field components are

$$E_r = 0, \quad E_{s,z} = -\frac{\omega}{c} Z \nabla S,$$

$$H_s = \omega Z S, \quad H_{s,z} = \frac{dZ}{dz} \nabla S,$$

Card 1/4

General case of resonator method of ...

S/181/62/004/010/062/063
B102/B104

$S = S(x_2, x_3)$ and $Z = z(z) = A \sin(\alpha z + \phi)$. $\delta Z = u(z, x_2, x_3)$ is the solution of the wave equation $\Delta u + k^2 u = 0$ where $k^2 = (\omega/c)^2 - \chi^2 + \alpha^2$. The boundary-value problem, together with the continuity condition, yields a system of equations of the form

$$\frac{\tan(\alpha_1 a_1)}{a_1} = \frac{\tan(\alpha_2 a_1 + \phi_2)}{a_2}, \dots, \dots, \dots = \frac{\tan(\alpha_n a_n)}{a_n}$$

with the non-trivial solution

$$\begin{aligned} \sum_{i=1}^n B_i - \sum_{i=2}^{n-1} a_i^2 B_i \left(\sum_{t=1}^{i-1} B_t \right) \left(\sum_{t=i+1}^n B_t \right) + \sum_{\substack{i=2 \\ i \geq t+2}}^{n-1} a_i^2 a_k^2 B_i B_k \left(\sum_{t=1}^{i-1} B_t \right) \left(\sum_{t=i+1}^{k-1} B_t \right) \times \\ \times \left(\sum_{t=k+1}^n B_t \right) - \sum_{\substack{i=2 \\ i \geq t+2 \\ i > k+2}}^{n-1} a_i^2 a_k^2 a_l^2 B_i B_k B_l \left(\sum_{t=1}^{i-1} B_t \right) \left(\sum_{t=i+1}^{k-1} B_t \right) \left(\sum_{t=k+1}^{l-1} B_t \right) \times \\ \times \left(\sum_{t=l+1}^n B_t \right) + \dots = 0. \end{aligned} \quad (2)$$

Card 2/4 $B_i = \frac{\operatorname{tg}(\alpha_i a_i)}{a_i}$.

General case of resonator method of...

S/181/62/004/010/062/063

B102/B104

This relation is the resonance condition for the magnetic oscillations and yields the parameters α_i for determining $\epsilon_i = (c/\omega)^2(\alpha_i^2 + k^2)$.

$a = \sum_{i=1}^n a_i$ is the length and ω_0 is the resonance frequency of the resonator when $\epsilon_1 = \dots = \epsilon_i = \dots = \epsilon_n = 1$. In this case $\chi^2 = (\omega_0/c)^2 - (r\pi/a)^2$; (3). For a dielectric of thickness a_2 upon a dielectric base of thickness a_3 ,

$$\alpha_2^2 = \frac{1}{B_1 a_2} \left[1 + (B_1 + a_2) \frac{1 - \alpha_3^2 B_3 B_4}{B_3 + B_4} \right]; \text{ if } \alpha_2^2 \text{ is put into Eq. (3) the}$$

dielectric constant ϵ_2 of the film can be determined. There are 2 figures.

ASSOCIATION: Leningradskiy politekhnicheskiy institut im. M. I. Kalinina (Leningrad Polytechnic Institute imeni M. I. Kalinina)

Card 3/4

VESELOVSKIY, P.F.; SUCHKOV, Yu.D.

Use of the resonance loop method in determining $\tan \delta$ in dielectrics.
Fiz. tver tela 5 no.9:2728-2730 S '63. (MIRA 16:10)

1. Leningradskiy politekhnicheskiy institut im. M.I.Kalinina.

SUCHKOV, YU. G., BASOVA, N. N., CHERMKOVA, T. M., LOPATKIN, O. N.

"Characteristics of the "Dagestan 273" virus strain isolated from a sand rat." p. 57

Desyatoye Soveshchaniye po parazitologicheskim problemam i prirodoznavchym boleznyam. 22-29 Oktyabrya 1959 g. (Tenth Conference on Parasitological Problems and Diseases with Natural Focus 22-29 October 1959), Moscow-Leningrad, 1959, Academy of Medical Sciences USSR and Academy of Sciences USSR, No. 1 254pp.

LEVI, M.I.; BASOVA, N.N.; SUCHKOV, Yu.G.

Characteristics of the complement fixation reaction in various infections. Vop.virus. 4 no.4:456-464 Jl-Ag '59. (MIRA 12:12)

1. Nauchno-issledovatel'skiy protivochumnyy institut Kavkaza i Zakavkaz'ya Stavropol' oblastnoy.

(COMPLEMENT)

(INFECTION, blood)

LEVI, M.I.; BASOVA, N.N.; ZUS'MAN, R.T.; CHERNIKOVA, T.M.; SUCHKOV, Yu.G.;
HUDNEV, M.M.

Incidence of influenza in Stavropol during the 1957 pandemic. Vop.virus.
4 no. 5:573-580 S-O '59. (MIRA 13:2)

1. Nauchno-issledovatel'skiy protivochumnyy institut Kavkaza i Zakav-
kaz'ya, Stavropol'.
(INFLUENZA, statist.)

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4

BASOVA, N.N.; CHERNIKOVA, T.M.; SUCHKOV, Yu.G.; LOPATKIN, O.N.

Study of the properties of a virus isolated from a woodcock
(Grocethia alba Pall.). Vop.virus. 5 no.3:286-292 My-Je '60.
(MIRA 13:9)

1. Nauchno-issledovatel'skiy protivochumnyy institut Kavkaza i
Zakavkaz'ya, Stavropol'.
(VIRUSES)

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4"

BASOVA, N.N.; CHERNIKOVA, T.M.; SUCHKOV, Yu.G.; RUDNEV, M.M.

Q fever and ornithosis in wild birds. Vop.virus. 6 no.5:586-591
S-0 '60. (MIRA 14:7)

1. Virusologicheskiy otdel Nauchno-issledovatel'skogo protivochumnogo
instituta Kavkaza i Zakavkaz'ya, Stavropol'.
(Q FEVER) (ORNITHOSIS)

BASOVA, N.N.; SUCHKOV, Yu.G.; GUSEV, V.M.; RUDNEV, M.M.

Ornithosis in wild and domestic fowl. Zhur.mikrobiol.epid.i immun.
31 no.9:3-7 S '60. (MIRA 13:11)

1. Iz Nauchno-issledovatel'skogo protivochumnogo instituta
Kavkaza i Zakavkaz'ya.
(ORNITHOSIS)

LEV, M.I.; BASOVA, N.N.; SUCHKOV, Yu.G.; ORLOVA, G.M.; GERASYUK, L.G.
MOMOT, A.G.

Reaction of passive hemagglutination and reaction of antibody
neutralization in some infections. Zhur. mikrobiol. epid. i
immun. 33 no.10&40-45 0'62 (MIRA 17:4)

1. Iz Rostovskogo-na-Donu nauchno-issledovatel'skogo protivo-
chumnogo instituta.

SUCHKOV, Yu.G.

Use of formalized chicken erythrocytes for reactions of passive hemagglutination and the neutralization of antibodies in plague.
Lab.delo 9 no.3:51-53 Mr '63. (MIRA 16:4)

1. Gosudarstvennyy nauchno-issledovatel'skiy protivochumnyy institut, Rostov-na-Donu.
(BLOOD--AGGLUTINATION) (ANTIGENS AND ANTIBODIES) (PLAQUE)

LEVI, M.I.; SAGATOVSKAYA, L.A.; SUCHKOV, Yu.G.; MOMOT, A.G.

Serological study in plague. Report No.8: Sensitivity and specificity of the antibody neutralization reaction in plague and tularemia. Zhur. mikrobiol. epid. i immun. 40 no.5:65-68 My '63. (MIRA 17:6)

1. Iz Rostovskogo-na-Donu nauchno-issledovatel'skogo protivochumnogo instituta.

LEVI, M.I.; SUCHKOV, Yu.G.; ORIOVA, G.M.; GERASYUK, L.G.; SHKODA, A.M.; PEYSAKHIS, L.A.; STCGOVA, A.N.; IOPATINA, N.F.; SUKHARNIKOVA, N.A.; PAK, G.Yu.; MUMINOV, K.M.; DONSKAYA, T.N.; NASSONOV, L.S.; VEYNBLAT, V.I.; MURTAZANOVA, E.Sh.; SHTEL'MAN, A.I.; LAVENT'EV, A.F.; BASOVA, N.N.; GOLKOVSKIY, G.M.; KULOV, G.I.; SAIAMOV, N.I.; ZALYGINA, N.I.

Results of the testing of the reactions of passive hemagglutination and neutralization of antibodies in the epizootologic examination of wild rodents for plague. Zhur. mikrobiol., epid. i immun. 40 no.12: 118-119 D '63. (MIRA 17:12)

1. Iz Rostovskogo i Sredne Aziatskogo protivochumnykh institutov, Chimkentskoy, Taldy-Kurganskoy, Aralomorskoy, Turkmenskoy, Astrakhanskoy i Frunzenskoy protivochumnykh stantsiy.

ACCESSION NR: AP4009030

382 sera from *Rhabdomys opimus*, while the pathogen could be isolated from only 3 cases. The antibody neutralization reaction was also carried out in this area. The results show that both tests are usable under field conditions, and that wild rodents containing antibodies to plague are much more common than rodents from which the live pathogen can be isolated. The passive hemagglutination reaction can be used to judge the severity and duration of a plague epizootic, while the antibody neutralization reaction is suitable for the examination of dead animals and is much more convenient, for purposes of rapid diagnosis, than isolation of the pathogen. "Physicians G. V. Kuzina, N. Ya Yeremetskiy, N. A. Yeremetskaya, O. S. Misaleva, T. N. Donsknya, G. I. Vashchenok, S. S. Dankov, E. Sh. Murtazanova, R. I. Ni and A. M. Shkoda took part in these studies. The age of the rodents was determined by zoologists S. N. Martin, V. S. Lobachev and V. S. Vashchenok." Orig. art. has: 3 tables.

ASSOCIATION: Rostovskiy-na-Donu nauchno-issledovatel'skiy protivochumnyy institut
(Scientific Research Institute Against Plague, Rostov-on-Don)

SUBMITTED: 13Jan62

DATE ACQ: 03Feb64

ENCL: 00

SUB CODE: AM, BC
Card 22

NO REF Sov: 010

OTHER: 003

LEVI, N.I.; SHURKOV, Yu.G.; ORLOVA, G.M.; GERASYUK, L.G.; SHKOLNIK, A.M.;
PEYSAKHOV, L.A.; STOGOVA, A.N.; IOPATINA, N.F.; SUKHARNIKOVA, N.A.;
PAK, G.Y.; MUMINOV, K.M.; DONSAYA, T.N.; HASSONOV, L.C.; WEINBLAT,
V.I.; MURTAZANOVA, E.Z.; STHEINAN, A.I.; LAVRINTEV, A.F.; BASIYA,
N.N.; KULOV, G.I.; GOLKOVSKY, G.M.; SALANAKOV, N.I.; ZALYGINA, N.I.

Significance of serological methods in the epizootiological study
of plague in wild rodents. J. hyg. epidem. (Prague) & no.4:422-427
'64.

I. Institute of Scientific Research, Rostov on the Don and Central
Asian Institute of Scientific Research, U.S.S.R.

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4

Л.Н.В., в.д.н.; Калинин, Ю.М.

кандидат техн. наук

Дифференциация нормализованных гемоглобина с помощью
иммунного микробиол. метода. Известия Академии Наук ССР.
Химия и химическая технология. № 2. 1965.
(ИИА 13:9)
• Рентгенография нормализованного гемоглобина
и его фракций.

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4"

SUCHKOV, Vasilij M. (Vasilij Mihajlovič Suchkov); N.N. VENIKOV, K.V.;
GRASYOK, T. (T.)

Primary lead author with co-authors on compilation of
precipitation on slope terrain. U.S.S.R. side of Tianshan. 42
pp. (IGR 36-24 - 3-30) (MIRA 1851)

1. Restorvskij, Vasilij Mihajlovič (Vasilij Mihajlovič Restorvskij) -
Institute Subject to May 1971

L 8790-66 EWT(m)/EWP(w)/ETC(m) WW/EM

ACC NR: AP5028028

SOURCE CODE: UR/0119/65/000/011/0008/0010

AUTHOR: Pliskin, Yu. S. (Candidate of technical sciences); Suchkov, Yu. S.
(Engineer)

11
B

ORG: none

TITLE: Measuring the average forces by string-type and vibration-frequency
sensors in the presence of vibrations

SOURCE: Priborostroyeniye, no. 11, 1965, 8-10

TOPIC TAGS: mechanical force, force measurement

ABSTRACT: The problem of measuring the average force upon which vibrations
are superposed is considered; the force is measured by the number of pulses per
unit time counted by an output instrument. Two types of errors — a dynamic cut-
off error and a dynamic nonlinearity error — are recognized. The cutoff error

Card 1/2

UDC: 620.178.53:621.3.088.24

Z

L 8790-66
ACC NR: AP5028028

is: $\Delta y(T)/y_0$, where $\Delta y(T)$ is the averaged vibration over the time T, y_0 is the measurand. The nonlinearity error is: $\frac{1}{4} \frac{\Delta y(t)^2}{y_0(1+y_0)}$. It is found that, when a static load is measured under vibration conditions: (1) The cutoff error decreases with increasing the time of measurement; it becomes less than 0.008 $\Delta y_m/y_0$ when $\omega T = 31\pi$; here, Δy_m is the amplitude of sinusoidal vibrations, ω is the angular frequency; (2) With short-time measurements, the cutoff error can be considerably reduced by recording the process shape or by using a vibration-period method; (3) The nonlinearity error is systematic; a formula is offered for its evaluation. Orig. art. has: 5 figures, 25 formulas, and 3 tables.

SUB CODE: 13/ SUBM DATE: 00

Card 2/2

SUCHKOVA, A.A.

USSR/Chemistry - Petroleum

1 Jul 52

"Hydrocarbons of the Decalin Series in Dossorsk Petroleum," S. S. Nifontova, R. Ya. Sushchik, A. A. Suchkova

"Dok Ak Nauk SSSR" Vol LXXXV, No 1, pp 115-116

Both Zelinskiy's catalytic dehydrogenation method and the picrate method were used in the investigation of kerosene from Dossorsk petroleum. Ten-deg fractions were sepd and analyzed. Presented by Acad A. V. Topchiyev 3 May 52.

224T17

SUCHKOVA, A. A.

APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4"

USSR/Chemical Technology. Chemical Products and Their I-14 Application--Treatment of natural gases and petroleum. Motor fuels. Lubricants.

Abs Jour: Ref Zhur-Khimiya, No 3, 1957, 9274

Author : Topchiev, A. V., Nifontova, S. S., Suchkova, A. A., and Sushchik, R. Ya.

Inst : Petroleum Institute of The Academy of Sciences USSR

Title : Decalin and Its Homologs in Some Soviet Crudes

Orig Pub: Tr. In-ta nafti AN SSSR, 1956, Vol 8, 21-29

Abstract: Kerosenes from Dossor, Ekhabin, Nebit-Dag, and Romashkin crudes were subjected to fractional distillation followed by dearomatization by treatment with 93% H₂SO₄ or adsorption on silica gel. The dearomatized fractions were subjected to exhaustive dehydrogenation over a Pt-Fe catalyst. The aromatic hydrocarbons produced during hydrogenation and distillation are extracted with picric acid from the catalyst or from the aromatics desorbed from

Card 1/2

USSR/Chemical Technology. Chemical Products and Their I-14 Application--Treatment of natural gases and petroleum. Motor fuels. Lubricants.

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APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4"

SUCHKOVA A.A.
TOPCHIYEV, A.V.; KUSAKOV, M.M.; NIFONTOV, S.S.; SUCHKOVA, A.A.; SHISHKINA,
M.V.

Investigating condensed aromatic hydrocarbons from the kerosene
fraction of Romashkino oil. Khim. i tekhn. i masel no.9:1-7
S '57. (MLRA 10:11)

1. Institut nefti AN SSSR.
(Chkalov Province--Petroleum) (Hydrocarbons--Analysis)

SUCHKOVA, A.A.

31975
S/081/61/000/023/046/061
B138/B101

110130

AUTHORS: Topchiyev, A. V., Nifontova, S. S., Kusayev, I. A., Sanin,
P. I., Suchkova, A. A., Sushchik, P. Ya., Chekalova, N. N.

TITLE: Separation of aromatic hydrocarbons from the medium (kerosine)
fractions of petroleum

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 23, 1961, 447 - 448,
abstract 23M64 (Tr. In-ta nefti. AN SSSR, v. 14, 1960, 12-57)

TEXT: Research work has produced a method for dividing petroleum into
distillate fractions and separating the narrow aromatic hydrocarbons
from the broad aromatic fraction 175 - 300°C of Romashki petroleum by
chromatographic fractionation over silica gel ACM(ASM). They are
divided into structural types and a partial study has been made of the
monocyclic aromatics. The possibility of quantitative fractionation by
chromatography over home-produced Al₂O₃ is demonstrated for the case of
artificial mixtures of mono- and bicyclic aromatics. When aromatics are
separated from the naphthene-paraffin part over silica gel, they need not
be separated in the form of narrow fractions according to n^{20} D. However,
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31975
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B130/B101

Separation of aromatic hydrocarbons...

they can quite well be separated as one whole aromatic fraction which can then, over Al_2O_3 , be divided into mono-, and bicyclic, or higher, molecular aromatic hydrocarbons. The overall hydrocarbon composition of the Romashki 175 - 300°C fraction has been found (in %); monocyclic aromatics 15.11; bicyclic aromatics 3.01; aromatics of mixed structure 0.7; hexamethylene hydrocarbons 6.4; pentamethylene hydrocarbons 11.5; normal paraffinous hydrocarbons 17.5; isoparaffinous 41.2 and organosulfur compounds 6.58 separated by oxidation. [Abstracter's note: Complete translation.] *X*

Card 2/2

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653720012-4

" 36196-65 100% ANALYSTS 100% PW

TOPIC TAGS: petroleum, paraffin wax, chromatographic analysis, hydrocarbon

APPROVED FOR RELEASE: 08/26/2000

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CIA-RDP86-00513R001653720012-4"

SUCHKOVA, A.D.

137-58-5-9457

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 92 (USSR)

AUTHORS: Petrov, D.A., Kekua, M.G., Khvostikova, V.D., Shashkov,
Yu.M., Suchkova, A.D.

TITLE. Producing Single Crystals of Silicon (O poluchenii mono-
kristallov kremniya)

PERIODICAL: V sb.: Vopr. metallurgii i fiz. poluprovodnikov. Moscow,
AN SSSR, 1957, pp 41-46

ABSTRACT: The production of single crystals of Si by drawing from a
melt and vertical floating-zone refining is described. Drawing
was performed in an apparatus consisting of 3 parts: a vacuum
circulation chamber connected with an evacuation system and
equipped with electrical leads and mechanism for raising and
rotating the crucible; a working chamber consisting of a metal
water-cooled cylinder with viewing window; and heads with a
mechanism for raising and rotating the seed crystal. The fusion
of the Si in a quartz crucible mounted on a graphite base was
done by a slit heater made of spectrally pure graphite, with
graphite screens around it. Smelting was in vacuum (10^{-4} - 10^{-5}
mm Hg). Si produced by the Beketov method was employed in

Card 1/2

137-58-5-9457

Producing Single Crystals of Silicon

the drawing. After the Si was fused, a thermal regime that assured crystallization of the melt from its center was chosen. The seed was immersed in the melt, and drawing began after it was fused. Single crystals were obtained after the material had been drawn 1, 2, or 3 times. It is noted that the presence of a film on the melt and poor contact between the seed crystal and the melt may cause the crystal drawn to be a polycrystalline. Vertical floating-zone refining was performed in an apparatus consisting of a vacuum chamber in which a Si bar, produced by drawing, was mounted vertically. A Ta heater, creating a zone of fusion within the specimen, moved along the specimen at a rate of ≈ 2 mm/min. It was found that a given degree of superheating of the zone was a condition for the production of a single crystal by this method. In a polycrystalline specimen a monocrystalline portion was produced only after several passes, while this was accomplished on the first pass when a monocrystalline seed crystal was employed. Single crystals of Si with resistivities of 15-60 ohm/cm were produced on these apparatus.

Yu. Sib..

- 1 Single crystals--Growth 2. Single crystals--Resistivity 3. Single--Applications

Card 2/2

SOV/180-59-1-3/29

AUTHORS: Belokurova, I.N., Kekua, M.G., Petrov, D.A. and
Suchkova, A.D. (Moscow)

TITLE: Production of Single Crystals of Alloys of Germanium with
Silicon (O poluchenii monokristallov splavov germaniya s
kremniyem)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye tekhnicheskikh
nauk, Metallurgiya i toplivo, 1959, Nr 1, pp 9-12, + 1
plate, (USSR)

ABSTRACT: The production of single crystals of solid solutions of
germanium with silicon is important in the semiconductor
field since they can combine the advantages of both
elements. The authors describe their experiments with
two methods of production. In the first, similar to that
of Davis (Ref 4), a melt of the required composition was
produced in an evacuated quartz ampoule in a silit
furnace. The melt was held at 20-25°C above the liquidus
temperature for four hours and then cooled at 1.5°C per
hour. Single crystals with 0.5 - 5 at. % Si were
obtained but it was found (Table 1) that they were
heterogeneous in composition, having a gradient of
silicon content and conductivity. The Laue patterns

Card 1/3

SOV'180-59-1-3/29

Production of Single Crystals of Alloys of Germanium with Silicon (Fig 4) indicate that growth occurs with a [100] orientation. The second method is based on drawing a crystal with continuous feed of melt as described by D.A. Petrov and V.S. Zemskov (Ref 6). For this a special apparatus was developed shown open in Fig 2 and in operation in Fig 1. A quartz crucible is heated by a graphite heater and a vacuum of 10^{-4} mm Hg is maintained while a crystal is drawn, a polycrystalline ingot of the same composition being added to the crucible at the same rate. Temperature is controlled manually and is chosen to give a single-crystal diameter equal to that of the feed ingot, the rate of feed and drawing then being the same and equal to 1.7 mm/min. Both crucible and crystal are rotated. Specimens were obtained (Table 2) with 0.70, 0.75, 1.0 and 2.0 at. % Si with homogeneous composition and electrical properties. Fig 8 shows resistivities as functions of length along specimens for several specimens. Specimens with [111] orientated

Card 2/3

30V/180-59-1-3/29

Production of Single Crystals of Alloys of Germanium with Silicon
growth axes are shown in Fig 5, while Figs 6 and 7 show
Laue patterns from the seeding crystal and the single
crystal, respectively.

Card 3/3 There are 8 figures, 2 tables and 6 references, 3 of
which are English, 2 Soviet and 1 German.

SUBMITTED: August 8, 1958

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67293
SOV/180-59-4-26/48

AUTHORS: Zhurkin, B.G., Zemskov, V.S., Petrov, D.A. and
Suchkova, A.D. (Moscow) 1 1

TITLE: The Nature of the Quasi-Binary Germanium-Indium-Antimony System

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Metallurgiya i toplivo, 1959, Nr 4, pp 156-158 (USSR)

ABSTRACT: Germanium with electron-type conduction and a specific resistance 25 to 30 ohm/cm was used together with zone refined antimony and indium. Crystals were pulled from the melt. Results are given in Table 1. All the samples had electron-type conductivity and samples with high InSb content had a higher concentration of electrons than those with low InSb content. The number of current carriers varied from 1.2×10^{18} to $1.9 \times 10^{19}/\text{cm}^3$. The value for fully compensated additions is $2.5 \times 10^{13}/\text{cm}^3$. Thus there was an excess of Sb atoms. Experiments were carried out using the same Ge:Sb ratio and increasing the In content. Results are given in Table 2. With a ratio of In:Sb of 2.5 there is still electronic conduction very near to the compensated alloy. With In:Sb = 4.4 there is hole-type conduction. Microstructures were examined along the 16 4

Card 1/2

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SOV/180-59-4-26/48

The Nature of the Quasi-Binary Germanium-Indium-Antimony System

length of the crystal pulled from a melt. A second phase appears (see Fig) which from microhardness tests corresponds to InSb. It does not appear, however, at temperatures greater than 650°C - the temperature of dissociation of InSb. The authors conclude that because of dissociation of InSb in fused germanium, the system does not possess the properties of a quasi-binary system. There are 1 figure, 2 tables and 8 references, 6 of which are Soviet and 2 English.

SUBMITTED: March 16, 1959

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Card 2/2

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SOV/180-59-5-13/37

AUTHORS: Zhurkin, B.G., Zemskov, V.S., Petrov, D.A., and
Suchkova, A.D. (Moscow)TITLE: The Solubility of Indium and Antimony in Germanium and
their Effect on some Electrical Properties of GermaniumPERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh
nauk, Metallurgiya i toplivo, 1959, Nr 5, pp 86-90 (USSR)ABSTRACT: Single crystals of germanium were pulled from melts doped
with up to 80 wt % of indium or of antimony. [111]
seeds were used; growth rate was 0.04 mm/min and the
crystal was rotated at 140 rpm. Starting materials were:
high purity germanium (25-30 ohm.cm N-type, mobility
3600 cm²/V.sec, diffusion length ~ 1.5-2 mm); indium
showing spectrographic traces of Fe, Al, Cu, Ca, Ni and
antimony of Cu, As, Pb, Au, Al and P. A pure graphite
crucible fitted with a quartz sheathed thermocouple
(Fig 1) held a charge of 10-12 g. The pulled ingots
were 7-9 mm diameter and 8-10 mm long. These were cut in
half lengthways. One half was studied metallographically
for homogeneity while Hall effect specimens (7 x 3 x 1 mm)
were cut from the other, close to the seed and
perpendicular to the growth axis. Resistivity and HallCard
1/3

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SOV/180-59-5-13/37
The Solubility of Indium and Antimony in Germanium and their
Effect on some Electrical Properties of Germanium

of resistivity vs impurity concentration for Sb (1) and
In (2) doping. 2.5×10^{-19} Sb/cm³ gave $\sim 6 \cdot 10^{-4}$
ohm.cm, and $2 \cdot 10^{-19}$ In/cm³ gave $2 \cdot 10^{-3}$ ohm.cm.
Fig 6 shows the corresponding variations in Hall
mobility; the plots for both holes and electrons
varying similarly. The results presented for In are
in good agreement with those in Ref 3.
Card
3/3 There are 6 figures, 1 table and 14 references, of which
3 are Soviet, 10 English and 1 German.

SUBMITTED: April 3, 1959

4